SANTA CRUZ BIOTECHNOLOGY, INC.

TEX13A (C-13): sc-169561



The Power to Question

BACKGROUND

TEX13A (Testis-expressed sequence 13A) is a 409 amino acid protein that is expressed specifically in the testis. One of two human orthologs of the mouse Tex13 protein, TEX13A contains one RanBP2-type zinc finger domain; a motif that is thought to be involved in nucleocytoplasmic transport. Like its mouse counterpart, the gene encoding TEX13A is located on chromosome X, suggesting a possible role in the pre-meiotic stages of mammalian spermatogenesis. Translocations in the chromosomal region in which the TEX13A gene is located may be involved in the pathogenesis of azoospermia, a condition characterized by a complete absence of sperm in male semen. Chromosome X contains nearly 153 million base pairs and houses over 1,000 genes. In conjunction with chromosome Y, chromosome X is responsible for sex determination. There are a number of conditions related to an abnormal number and combination of sex chromosomes, some of which include Turner's syndrome, color blindness, hemophilia and Duchenne muscular dystrophy.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TEX13A (human) mapping to Xq22.3.

SOURCE

TEX13A (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TEX13A of human origin.

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-169561 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TEX13A (C-13) is recommended for detection of TEX13A of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with TEX13B.

Suitable for use as control antibody for TEX13A siRNA (h): sc-91152, TEX13A shRNA Plasmid (h): sc-91152-SH and TEX13A shRNA (h) Lentiviral Particles: sc-91152-V.

Molecular Weight of TEX13A: 46 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.